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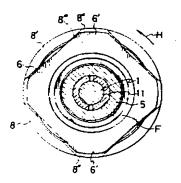
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INT.CL.

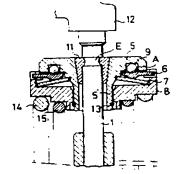
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TITLE

: VALVE ROTARY DEVICE









ABSTRACT: PURPOSE: To surely perform turn lock action of a ball race, by fitting peripheral angular parts of the ball race to recessed parts of a spring retainer and holding the ball race to be engaged to the spring retainer.

> CONSTITUTION: A belleville spring 7 is housed in a retainer 8 of valve springs 14, 15, and balls 9 urged by a spring 10 are arranged in plural grooves A of a cap 5, then a ball race 6 is provided between the ball 9 and the belleville spring 7. An external diameter of the ball race 6 is formed slightly smaller than the external diameter of a circular wall of the retainer 8, further the ball race 6 is formed to a square equipped with peripheral angular parts 6' and said parts 6' are engaged to recessed parts 8" formed to the circular wall of the retainer 8. Accordingly, turn lock action of the ball race 6 at each turn of a valve can be surely performed in very high reliability.

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